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(72) Inventor; and

(75) Inventor/Applicant (for US only): **AHRENS, Eric, T.**  
[US/US]; 327 Dewey Street, Pittsburgh, PA 15218 (US).

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(74) Agents: **VARMA, Anita** et al.; Ropes & Gray LLP, One  
International Place, Boston, MA 02110-2624 (US).

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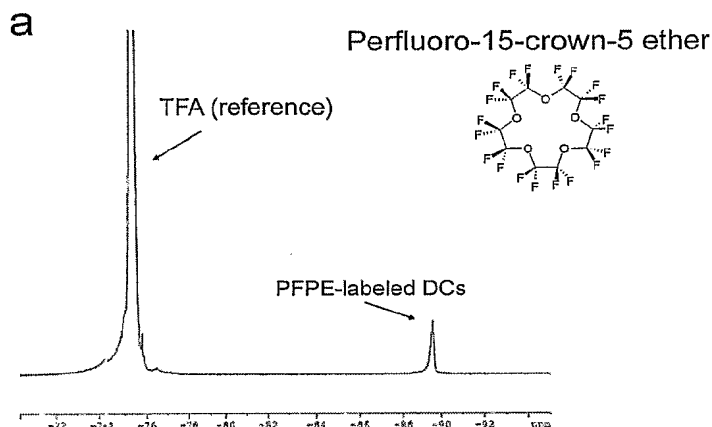
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(71) Applicant (for all designated States except US):  
**CARNEGIE MELLON UNIVERSITY** [US/US];  
4400 Fifth Avenue, Pittsburgh, PA 15213 (US).

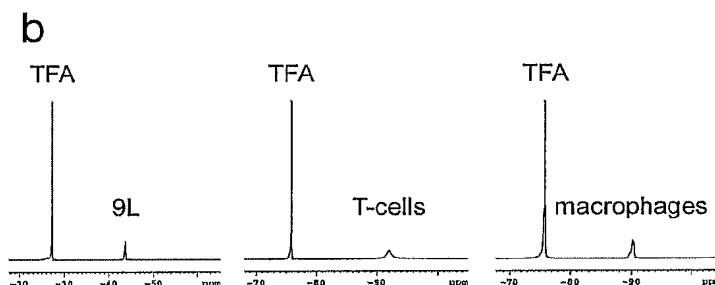
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(57) Abstract: The disclosure provides, in part, fluorocarbon imaging reagents and formulations for the *ex vivo* labeling of cells. Labeled cells may be detected in vivo or *ex vivo* by a nuclear magnetic resonance technique, such as magnetic resonance imaging (MRI) or magnetic resonance spectroscopy (MRS). The disclosure additionally provides methods for using the imaging reagents in a variety of clinical procedures.





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